

Claims

1. A micro air vehicle comprising fuel tank connected to a region adapted to decompose hydrogen peroxide, a nozzle adapted to exit the decomposition products of hydrogen peroxide to provide thrust, means to provide a hydrocarbon fuel adapted to burn by consuming oxygen from the decomposition of hydrogen peroxide and pressurised oxygen to pressurise said fuel.
2. A micro air vehicle comprising an engine having connection means to a tank adapted to contain hydrogen peroxide, a fuel tank connected to a region adapted to decompose hydrogen peroxide, a decomposition region/chamber suitable for decomposing hydrogen peroxide, a nozzle to accelerate the resulting decomposition products, a turbofan located downstream of the exit of said nozzle, and located within a duct so as to provide propulsive thrust and means to provide a hydrocarbon fuel adapted to burn by consuming oxygen from the decomposition of hydrogen peroxide.
3. An engine as claimed in claim 4 additionally comprising a means for providing hydrocarbon fuel to said decomposition region/chamber or nozzle to be oxidised at least in part by the oxygen produced by the decomposition.
4. A method of propelling a micro air vehicle comprising decomposing hydrogen peroxide and exiting the decomposition products through a nozzle to provide thrust.
5. A method as claimed in claim 4 including burning a hydrocarbon fuel with the oxygen produced from said combustion.
6. A method as claimed in claim 5 wherein said hydrocarbon is pressurised.
7. A method of propulsion comprising decomposing hydrogen peroxide and exiting the resulting said decomposition products through a nozzle towards a turbofan located with a duct.
8. A method as claimed in claim 7 wherein additionally comprising burning a hydrocarbon fuel with oxygen provided from decomposition.
9. A method of propelling a micro air vehicle as claimed in claims 7 or 8.